

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1 (currently amended): A method for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be reproduced in synchronism with the AV data, the method comprising:

a first step of dividing the AV data into partial AV data based on a unit that the AV data is synchronized with the associated data, and of dividing the associated data into partial associated data based on a unit that the associated data is synchronized with the AV data, ~~in accordance with a predetermined interval~~;

a second step of securing, in the recording medium, a first continuous region for continuously storing ~~a series of~~ the partial AV data and the partial associated data, which are to be synchronized with each other;

a third step of continuously recording the partial AV data and the partial associated data onto the first continuous region; and

a fourth step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as the different files.

Claim 2 (original): The method as set forth in claim 1, further comprising:

a fifth step of recording, onto the recording medium, (i) reproduction start time of the partial AV data, and (ii) correspondence information of the partial AV data and the partial associated data, both of which are disposed in the first continuous region.

Claim 3 (original): The method as set forth in claim 1, further comprising:

a sixth step of recording, onto the recording medium, information indicating whether or not the partial associated data is recorded adjacent to the corresponding partial AV data.

Claim 4 (currently amended): A method for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be ~~reproduced in synchronism~~synchronized with the AV data,

the method comprising:

a first step of dividing the AV data into partial AV data in accordance with a predetermined interval;

a second step of securing a first continuous region including, ~~in the recording medium, a first continuous region for continuously storing~~ (i) a series of the partial AV data and (ii) ~~partial reservation data~~ a second region for securing, during recording of the associated data, a region for storing ~~partial associated data that is so divided as to correspond~~ the associated data corresponding to the partial AV data; and

~~a third step of continuously recording the partial AV data and the partial reservation data onto the first continuous region, while making sets of the partial reservation data; and~~

a ~~fourth~~ third step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the ~~partial reservation data~~ second region as different files, and (ii) managing information for handling the partial AV data and the ~~partial reservation data~~ second region as different files.

Claim 5 (currently amended): The method as set forth in claim 4, further comprising:

a fifth step of dividing, during the recording of the associated data, the associated data into partial associated data in accordance with a predetermined interval;

a sixth step of recording, during the recording of the associated data, the partial associated data onto the second region ~~secured by the partial reservation data which~~ that is stored in continuity with ~~the relevant~~ the partial AV data ~~corresponding to the associated data; and~~

a seventh step of recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the partial associated data as a ~~different file~~ different from ~~the~~ respective files of the partial AV data and the ~~partial reservation data~~ second region, and (ii) managing information for handling the partial associated data as a ~~different file~~ different from respective files of the partial AV data and the second region.

Claim 6 (original): The method as set forth in claim 4, further comprising:

an eighth step of recording, onto the recording medium, (i) reproduction start time of the partial AV data, and (ii) correspondence information of the partial AV data and the partial associated data, both of which are disposed in the first continuous region.

Claim 7 (original): The method as set forth in claim 4, further comprising:

a ninth step of recording, onto the recording medium, information indicating whether or not the partial associated data is recorded adjacent to the corresponding partial AV data.

Claim 8 (currently amended): An AV data recording apparatus for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be ~~reproduced in synchronism~~ synchronized with the AV data,

the AV recording apparatus, comprising:

means for dividing the AV data into partial AV data based on a unit that the AV data is synchronized with the associated data, and for dividing the associated data into partial associated data based on a unit that the associated data is synchronized with the AV data, ~~in accordance with a predetermined interval~~;

means for securing, in the recording medium, a first continuous region for continuously storing ~~a series of~~ the partial AV data and the partial associated data, which are to be synchronized with each other;

means for continuously recording the partial AV data and the partial associated data onto the first continuous region; and

means for recording, onto the recording medium, file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

Claim 9 (currently amended): An AV data recording apparatus for recording, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be reproduced in synchronism with the AV data,

the AV data recording apparatus, comprising:

means for dividing the AV data into partial AV data in accordance with a predetermined interval;

means for securing, ~~in the recording medium,~~ a first continuous region for continuously storing (i) a series of the partial AV data and (ii) partial reservation data for securing, including a second region for securing, during recording of the associated data, a region for storing partial the associated data ~~that is so divided as to correspond~~ corresponding to the partial AV data; and

~~means for continuously recording the AV data and the partial reservation data onto the first continuous region, while making sets of the partial reservation data; and~~

means for recording, onto the recording medium, file system management information for (i) managing the partial AV data and the ~~partial reservation data~~ second region as different files, and (ii) managing information for handling the partial AV data and the ~~partial reservation data~~ second region as different files.

Claim 10 (currently amended): The AV data recording apparatus as set forth in claim 9, further comprising:

means for dividing, during the recording of the associated data, the associated data into partial associated data in accordance with a predetermined interval;

means for recording, during the recording of the associated data, the partial associated data onto the second region secured by the partial reservation data which ~~that~~ is stored in continuity with ~~the relevant partial AV data corresponding to the associated data; and~~

means for recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the partial associated data as a ~~different file~~ different from the respective files of the partial AV data and the ~~partial reservation data~~ second region, and (ii) managing information for handling the partial associated data as a ~~different file~~ different from respective files of the partial AV data and the second region.

Claim 11 (currently amended): A data recording medium for storing (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be ~~reproduced in synchronism~~ synchronized with the AV data, wherein:

the data recording medium continuously stores (i) ~~a series of~~ partial AV data obtained by dividing the AV data ~~in accordance with a predetermined interval~~ based on a unit that the AV data is synchronized with the associated data, and (ii) partial associated data obtained by dividing the associated data ~~in accordance with a predetermined interval~~ based on a unit that the associated data is synchronized with the AV data; and

the data recording medium stores file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

Claim 12 (currently amended): A program for causing a computer to ~~recording~~ record, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be ~~reproduced in synchronism~~ synchronized with the AV data,

the program causing the computer to perform:

a first step of dividing the AV data into partial AV data based on a unit that the AV data is synchronized with the associated data, and of dividing the associated data into partial

~~associated data, in accordance with a predetermined interval~~ based on a unit that the associated data is synchronized with the AV data;

a second step of securing, in the recording medium, a first continuous region for continuously storing ~~a series of the partial AV data and the partial associated data,~~ which are to be synchronized with each other;

a third step of continuously recording the partial AV data and the partial associated data onto the first continuous region; and

a fourth step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the partial associated data as different files, and (ii) managing information for handling the partial AV data and the partial associated data as different files.

Claim 13 (currently amended): A program for causing a computer to record, onto a recording medium, (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be ~~reproduced in synchronism~~ synchronized with the AV data,

the program causing the computer to perform:

a first step of dividing the AV data into partial AV data in accordance with a predetermined interval;

a second step of securing, ~~in the recording medium,~~ a first continuous region including a second region for continuously storing (i) a series of the partial AV data and (ii) partial reservation data for securing, during recording of the associated data, a region for storing ~~partial the associated data that is so divided as to correspond~~ corresponding to the partial AV data; and

~~a third step of continuously recording the AV data and the partial reservation data onto the first continuous region, while making sets of the partial reservation data; and~~

a fourth step of recording, onto the recording medium, file system management information for (i) managing the partial AV data and the ~~partial reservation data~~ second region as different files, and (ii) managing information for handling the partial AV data and the ~~partial reservation data~~ second region as different files.

Claim 14 (original): A recording medium for storing the program as set forth in claim 12 or 13.

Claim 15 (new): The method as set forth in claim 4, further comprising:

a tenth step of recording, during the recording of the associated data, the associated data onto the second region that is stored in continuity with relevant partial AV data; and

an eleventh step of recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the associated data as a file different from respective files of the partial AV data and the second region, and (ii) managing information for handling the associated data as a file different from respective files of the partial AV data and the second region.

Claim 16 (new): The method as set forth in claim 4, wherein:

upon the creation of the second region, a size of the second region is determined in consideration of occurrence of a defect.

Claim 17 (new): The AV data recording apparatus as set forth in claim 9, comprising:

means for recording the associated data onto the second region that is stored in continuity with relevant partial AV data; and

means for recording, onto the recording medium during the recording of the associated data, file system management information for (i) managing the associated data as a file different from respective files of the partial AV data and the second region, and (ii) managing information for handling the associated data as a file different from respective files of the partial AV data and the second region.

Claim 18 (new): A data recording medium that can store (i) AV data obtained by multiplexing a plurality of sets of stream data in accordance with a predetermined multiplexing rule, and (ii) associated data to be synchronized with the AV data,

wherein:

the AV data is divided into partial AV data in accordance with a predetermined interval;
the AV data is recorded such that a series of the partial AV data is positioned in continuity with a second region for securing a region for storing associated data corresponding to the partial AV data;

the data recording medium stores file system management information for (i) managing the partial AV data and the second region as different files, and (ii) managing information for handling the partial AV data and the second region as different files.

Claim 19 (new): The method as set forth in claim 1, wherein:

the partial AV data is constituted by the integral number of individually reproducible units.

Claim 20 (new): The method as set forth in claim 19, further comprising:

a seventh step of recording information indicating whether or not each of the individually reproducible units is positioned in a head of the partial AV data.